

**ABSTRACT**

Granulated products are provided and include carbonaceous particles and a carbonized agent or binder. The agent or binder is preferably a synthetic resin, pitch  
5 component, or mixture thereof. Packing materials for packing columns used in chromatographic separations are also provided as are methods of chromatographic separation using the materials. In addition, methods are provided to provide a variety of different types of carbonaceous products. A variety of chemical groups can be, prior to heat-treatment and/or thereafter, attached to the granules to form modified granules.